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United States Department of Agriculture,

OFFICE OF THE SECRETARY—Circular No. 15.

ADULTERATION OF KENTUCKY BLUEGRASS AND ORCHARD GRASS SEED.

Seeds of Kentucky bluegrass and of orchard grass have been obtained and tested in accordance with the following paragraph contained in the act of Congress making appropriations for the Department of Agriculture:

The Secretary of Agriculture is hereby directed to obtain in the open market samples of seeds of grass, clover, or alfalfa, test the same, and if any such seeds are found to be adulterated or misbranded, or any seeds of Canada bluegrass (*Poa compressa*) are obtained under any other name than Canada bluegrass or *Poa compressa*, to publish the results of the tests, together with the names of the persons by whom the seeds were offered for sale.

In carrying out the provisions of this act 251 samples of seed of Kentucky bluegrass and 265 samples of orchard grass were obtained in the open market and examined. Of these, 41 samples of seed of Kentucky bluegrass were found to be adulterated with seed of Canada bluegrass, while 133 samples of orchard grass seed were found to be adulterated, the seeds most commonly used as adulterants being English rye-grass and meadow fescue, the value of neither being more than one-third to one-half that of orchard grass seed. That the adulteration of orchard grass is very general is evidenced by the fact that samples containing adulterants were obtained from 24 States.

While Canada bluegrass is imported into the United States in quantities varying from 600,000 to 700,000 pounds per annum, it is used only occasionally in this country, and it is evident that the bulk of the seed imported is sold as Kentucky bluegrass.

In accordance with the provisions of the act of Congress quoted, publication is here made of the names and addresses of the seedsmen who sold the lots found to be adulterated, together with the percentages of adulteration in each lot.

Results of tests of samples of seed obtained in the open market as Kentucky bluegrass seed and found to be adulterated.

Seed sold as Kentucky bluegrass by—		Quantity examined.	Seeds used as adulterants.	
Name.	Address.		Canada blue-grass.	Total adulterants.
Frank H. Battles.....	28 Selye Terrace, Rochester, N. Y.	Mail sample	Per cent.	Per cent.
Brewster, Crittenden & Co.	44 N. St. Paul street, Rochester, N. Y.	.....do	19.32	19.32
Do.....	.....do.....	.....do	23.77	23.77
A. C. Brown.....	217 S. Fifth street, Springfield, Ill.	Seed bought in bulk..	24.08	24.08
M. F. Crissman.....	Manchester, Ohio.....	Mail sample	28.35	28.35
Do.....	.....do.....	.....do	30.65	30.65
Curry-Arrington Co ..	Rome, Ga.....	Seed bought in bulk..	21.49	21.49
Do.....	.....do.....	Mail sample	21.54	21.54
Zach Davis Co.....	Delaware, Ohio.....	Seed bought in bulk..	27.74	27.74
Do.....	.....do.....	Mail sample	23.23	23.23
Do.....	.....do.....	.....do	25.48	25.48
Denver Seed and Floral Co.	Denver, Colo.....	Seed bought in bulk..	21.02	21.02
Do.....	.....do.....	Mail sample	29.3	^a 46.86
J. A. Everitt.....	Indianapolis, Ind.....	Seed bought in bulk..	25.1	25.1
Do.....	.....do.....	Mail sample	50.03	50.03
Godden Co., Amzi.....	Birmingham, Ala.....	Seed bought in bulk..	35.99	35.99
Griswold Seed Co.....	Lincoln, Nebr.....	Mail sample	32.5	32.5
Do.....	.....do.....	.....do	47.55	47.55
Harmon & Harris Co ..	Exchange and Federal streets, Portland, Me.	Seed bought in bulk..	42	42
Do.....	.....do.....	Mail sample	46.19	46.19
Joseph Harris Co ..	Coldwater, N. Y.....	Seed bought in bulk..	46.19	46.19
Do.....	.....do.....	Mail sample	18.55	18.55
Arthur G. Lee & Bro ..	Fort Smith, Ark.....	Seed bought in bulk..	25.11	25.11
Do.....	.....do.....	Mail sample	72.55	^b 80.72
Leonard Seed Co ..	79 E. Kinzie street, Chicago, Ill.	Seed bought in bulk..	76.85	76.85
Do.....	.....do.....	Mail sample	89.91	89.91
M. G. Madson Seed Co.	Manitowoc, Wis.....	Seed bought in bulk..	83.23	83.23
Plant Seed Co ..	814 N. Fourth street, St. Louis, Mo.	Mail sample	41.56	41.56
Do.....	.....do.....	.....do	55.13	55.13
Martin C. Ribsam ..	Broad and Front streets, Trenton, N. J.	Seed bought in bulk..	25.98	25.98
Ross Bros.....	90 Front street, Worcester, Mass.....	Mail sample	78.92	^c 83.12
Do.....	.....do.....	.....do	2.7	^d 48.1
John A. Salizer Seed Co	La Crosse, Wis.....	Seed bought in bulk..	19.32	19.32
Do.....	.....do.....	Mail sample	19.45	19.45
Schisler-Corneli Seed Co.	813 N. Fourth street, St. Louis, Mo.	Seed bought in bulk..	22.74	22.74
Do.....	.....do.....	Mail sample	84	84
A. Tilton & Son ..	83 Woodland avenue, Cleveland, Ohio.....	Seed bought in bulk..	8.67	8.67
Do.....	.....do.....	Mail sample	23.8	23.8
E. E. Wheeler ..	1131 Main street, Bridgeport, Conn.....	Seed bought in bulk..	25.3	25.3
Do.....	.....do.....	Mail sample	36.91	36.91
Young & Halstead ..	2 Grand street, Troy, N. Y ..	Seed bought in bulk..	30.89	30.89
		Mail sample	59.9	^e 66.9

^a17.56 per cent redtop.

^b8.17 per cent timothy.

^c4.2 per cent timothy.

^d45.4 per cent redtop.

^e4.1 per cent timothy; 2.9 redtop.

Results of tests of samples of seed obtained in the open market as orchard grass seed and found to be adulterated.

Seed sold as orchard grass by—		Quantity examined.	Seeds used as adulterants.	
Name.	Address.		Meadow fescue and rye-grass.	Total adulterants.
N. H. Adams & Son ..	Decorah, Iowa.....	Mail sample	Per cent.	Per cent.
Do.....	.....do.....	Seed bought in bulk..	23.93	23.93
T. Lee Adams	417 Walnut street, Kansas City, Mo.....	Mail sample	18.8	18.8
Do.....	.....do.....	Seed bought in bulk..	10.78	10.78
Alexander Seed Co ..	Augusta, Ga.....	Mail sample	13.2	13.2
Do.....	.....do.....	Mail sample	26.7	26.7
H. C. Anthony	Portsmouth, N. H.....	Seed bought in bulk..	29.68	29.68
Do.....	.....do.....	Mail sample	22.25	^a 38.55
		Seed bought in bulk..	24.3	^b 27.4

^a6.7 per cent other fescue grasses; 6.8 per cent bromus; 2.8 per cent molinia,

^b3.1 per cent molinia.

Results of tests of samples of seed obtained in the open market as orchard grass seed and found to be adulterated—Continued.

Seed sold as orchard grass by—		Quantity examined.	Seeds used as adulterants.	
Name.	Address.		Meadow fescue and rye-grass.	Total adulterants.
Batchelor's Seed Store.	26 Liberty street, Utica, N. Y.	Mail sample	51.15	51.15
Do.	do.	Seed bought in bulk	37.4	a 43.50
Frank H. Battles.	Rochester, N. Y.	Mail sample	b 19.7	b 19.7
Do.	do.	Seed bought in bulk	26.58	26.58
A. A. Berry Seed Co.	Clarinda, Iowa	Mail sample	9.13	c 33.37
Do.	do.	Seed bought in bulk	7.7	d 29.35
Binghamton Seed Co.	Henry and Water streets, Binghamton, N. Y.	Mail sample	21.68	21.68
Do.	do.	Seed bought in bulk	19.4	19.4
F. W. Bolgiano & Co.	935 B street, Washington, D. C.	Mail sample	25.4	25.4
Do.	do.	Seed bought in bulk	25.8	25.8
C. S. Brent.	Lexington, Ky.	Mail sample	26.62	26.62
Do.	do.	do	29.79	29.79
Brewster, Crittenden & Co.	44 North St. Paul street, Rochester, N. Y.	Seed bought in bulk	2.45	2.45
Do.	do.	Mail sample	32.65	32.65
A. C. Brown.	217 South Fifth street, Springfield, Ill.	Seed bought in bulk	39.71	39.71
Do.	do.	Mail sample	18.4	18.4
John J. Buffington & Co.	104 South Charles street, Baltimore, Md.	Seed bought in bulk	18.54	18.54
Do.	do.	Mail sample	9.19	9.19
D. V. Burrell.	Rocky Ford, Colo.	Seed bought in bulk	e 2.79	e 2.79
Do.	do.	Mail sample	25.26	f 34.85
Charleston Nursery and Seed Co.	Charleston, W. Va.	Seed bought in bulk	55.85	964
Do.	do.	Mail sample	40.45	40.45
Chesmire-Eastlake Mercantile Co.	838 South Fourth street, St. Joseph, Mo.	Seed bought in bulk	43.75	43.75
Do.	do.	Mail sample	6.75	h 20.09
O. W. Clark & Sons.	59 Seneca street, Buffalo, N. Y.	Seed bought in bulk	12.75	i 22.60
Do.	do.	Mail sample	26.5	26.5
E. W. Conklin & Sons.	Binghamton, N. Y.	Seed bought in bulk	26.15	26.15
Do.	do.	Mail sample	26.4	26.4
M. F. Crissman.	Manchester, Ohio.	Seed bought in bulk	23.4	23.4
Do.	do.	Mail sample	44.5	41.5
Crosmans Bros.	Roechester, N. Y.	Seed bought in bulk	49.95	49.95
Do.	do.	Mail sample	19.86	19.86
Curry-Arrington Co.	Rome, Ga.	Seed bought in bulk	16.21	16.21
Do.	do.	Mail sample	36.3	36.3
Zach Davis Co.	Delaware, Ohio.	Seed bought in bulk	37.45	37.45
Do.	do.	Mail sample	19.74	j 21.29
Do.	do.	do	19.62	19.62
Edward P. Dibble.	Honeoye Falls, N. Y.	Seed bought in bulk	19.55	19.55
Farber Seed Co.	St. Joseph, Mo.	Mail sample	15.36	15.36
Do.	do.	do	35.8	35.8
Wm. S. Gilbreath Seed Co.	Indianapolis, Ind.	Seed bought in bulk	10.7	10.7
Do.	do.	Mail sample	11.4	11.4
Do.	do.	do	13.86	13.86
Godden Co., Amzi.	Birmingham, Ala.	Seed bought in bulk	6.25	6.25
Do.	do.	Mail sample	25.3	25.3
James J. H. Gregory & Son.	Marblehead, Mass.	Seed bought in bulk	24.2	24.2
Do.	do.	Mail sample	21.11	21.11
Harmon & Harris Co.	Exchange and Federal streets, Portland, Me.	Seed bought in bulk	20.85	20.85
Do.	do.	Mail sample	21.25	21.25
Holmes Seed Co.	Harrisburg, Pa.	Seed bought in bulk	20.25	20.25
Do.	do.	Mail sample	42.73	42.73
Carl S. Hopkins.	Brattleboro, Vt.	Seed bought in bulk	46.15	46.15
Do.	do.	Mail sample	21.2	21.2
John Hubbard & Co.	First and Vine streets, Evansville, Ind.	Seed bought in bulk	18.36	18.36
Do.	do.	Mail sample	24.35	24.35
John D. Imlay.	54 Fifth street, Zanesville, Ohio.	Seed bought in bulk	26.05	26.05
Do.	do.	Mail sample	20.28	k 22.73
Iowa Seed Co.	613 Locust street, Des Moines, Iowa.	Seed bought in bulk	19.65	19.65
Do.	do.	Mail sample	18.89	18.89

a 6.1 per cent velvet grass.

b 19.7 per cent other fescue grasses.

c 24.24 per cent other fescue grasses.

d 21.65 per cent other fescue grasses.

e 2.79 per cent timothy.

f 9.59 per cent bromus.

g 8.15 per cent bromus.

h 9.99 per cent other fescue grasses; 3.35 per cent bromus.

i 6.1 per cent bromus; 3.75 per cent other fescue grasses.

j 1.55 per cent other fescue grasses.

k 2.45 per cent Kentucky bluegrass.

Results of tests of samples of seed obtained in the open market as orchard grass seed and found to be adulterated—Continued.

Seed sold as orchard grass by—		Quantity examined.	Seeds used as adulterants.	
Name.	Address.		Meadow fescue and rye-grass.	Total adulterants.
S. M. Isbell & Co.	Jackson, Mich.	Mail sample	22.85	22.85
Do.	do	Seed bought in bulk	28.94	28.94
Milton T. Jones	14 Liberty street, Utica, N. Y.	Mail sample	39.55	39.55
Do.	do	Seed bought in bulk	41.43	41.43
Kendall & Whitney Co.	Federal and Temple streets, Portland, Me.	Mail sample	26.2	26.2
Do.	do	Seed bought in bulk	1.29	1.29
Lacy Seed & Fuel Co.	Noblesville, Ind.	Mail sample	50.6	50.6
Do.	do	Seed bought in bulk	50	50
Leonard Seed Co.	79 E. Kinzie street, Chicago, Ill.	Mail sample	27.21	27.21
Do.	do	Seed bought in bulk	24.5	24.5
Livingston Seed Co.	Columbus, Ohio	Mail sample	19.76	19.76
Do.	do	Seed bought in bulk	25	25
J. M. McCullough's Sons	316 Walnut street, Cincinnati, Ohio.	Mail sample	21.75	21.75
Do.	do	Seed bought in bulk	3.1	3.1
I. S. Matthews' Sons	Binghamton, N. Y.	Mail sample	44.48	44.48
Do.	do	Seed bought in bulk	48.7	48.7
L. L. May & Co.	381 Minnesota street, St. Paul, Minn.	Mail sample	73.65	a 89.7
Do.	do	Seed bought in bulk	9.9	9.9
Thos. Meherin	552 Battery street, San Francisco, Cal.	Mail sample	35.05	35.05
Do.	do	Seed bought in bulk	1.1	1.1
Henry F. Michell Co.	1018 Market street, Philadelphia, Pa.	Mail sample	37.35	b 55
Do.	do	Seed bought in bulk	34.6	c 50.65
P. B. Mingle & Co.	103 Market street, Philadelphia, Pa.	Mail sample	26	26
Do.	do	Seed bought in bulk	28.45	28.45
Missouri Seed Co.	1426 St. Louis avenue, Kansas City, Mo.	Mail sample	13.4	13.4
Walter Mott Seed and Bulb Co.	Jamestown, N. Y.	do	44.4	44.4
Do.	do	Seed bought in bulk	42.2	42.2
Murray's Seed Store	420 S. Adams street, Peoria, Ill.	Mail sample	18.26	18.25
Do.	do	Seed bought in bulk	19.82	19.82
National Seed Co.	101 W. Main street, Louisville, Ky.	Mail sample	26.68	26.68
Do.	do	Seed bought in bulk	3.55	3.55
Oklahoma Seed House (Barteldes & Co.)	Oklahoma City, Okla.	Mail sample	18.75	18.75
Do.	do	Seed bought in bulk	13.53	13.53
L. L. Olds Seed Co.	Clinton, Wis.	Mail sample	98.55	98.55
Geo. H. Price	511 Broadway, Albany, N. Y.	do	43.27	43.27
Do.	do	Seed bought in bulk	40.45	40.45
Ratekin's Seed House	Shenandoah, Iowa	Mail sample	12.26	d 33.70
Do.	do	Seed bought in bulk	15.29	e 32.38
Robert C. Reeves Co.	187 Water street, New York, N. Y.	Mail sample	7.45	f 30.05
Do.	do	Seed bought in bulk	6.6	g 37.50
Martin C. Ribsam	Broad and Front streets, Trenton, N. J.	Mail sample	23.68	23.68
Do.	do	Seed bought in bulk	12.54	h 41.41
Ross Brothers	90-92 Front street, Worcester, Mass.	Mail sample	32	32
Do.	do	Seed bought in bulk	31.97	31.97
Wm. G. Scarlett & Co.	729 E. Pratt street, Baltimore, Md.	Mail sample	9.45	9.45
Wm. E. Schaeffer	Lockport, N. Y.	do	19.08	19.08
Do.	do	Seed bought in bulk	22.3	22.3
Jos. A. Schindler & Co.	827 Decatur street, New Orleans, La.	Mail sample	10.05	i 24.25
Schlegel & Fottler Co.	26 S. Market street, Boston, Mass.	do	8.2	8.2
Do.	do	Seed bought in bulk	6.2	6.2
Geo. L. Siegel	Erie, Pa.	Mail sample	9.39	9.39
Do.	do	Seed bought in bulk	10.85	10.85
State Nursery Co.	Helena, Mont.	Mail sample	42.45	42.45
Do.	do	Seed bought in bulk	40.25	40.25
Chas. H. Stone & Co.	9 Chatham Row, Boston, Mass.	Mail sample	32.87	j 45.75

a 16.05 per cent chess.

b 17.65 per cent molinia.

c 16.05 per cent molinia.

d 21.44 per cent other fescue grasses.

e 17.24 per cent other fescue grasses.

f 22.6 per cent other fescue grasses.

g 30.9 per cent other fescue grasses.

h 6.7 per cent bromus; 22.17 per cent other fescue grasses.

i 14.2 per cent other fescue grasses.

j 12.88 per cent timothy.

Results of tests of samples of seed obtained in the open market as orchard grass seed and found to be adulterated—Continued.

Seed sold as orchard grass by—		Quantity examined.	Seeds used as adulterants.	
Name.	Address.		Meadow fescue and ryegrass.	Total adulterants.
Chas. H. Stone & Co.	9 Chatham Row, Boston, Mass.	Seed bought in bulk	23.3	23.3
Storrs & Harrison Co.	Painesville, Ohio	Mail sample	9.04	9.04
Do.	do.	Seed bought in bulk	12.35	12.35
Vogeler Seed & Produce Co.	Salt Lake City, Utah	Mail sample	18.8	18.8
Do.	do.	Seed bought in bulk	51.95	51.95
Whitney-Eckstein Seed Co.	Chamber of Commerce Building, Buffalo, N. Y.	Mail sample	39.38	39.38
Do.	do.	Seed bought in bulk	37.85	37.85
Whitney-Noyes Seed Co.	Church street and Terrace, Buffalo, N. Y.	Mail sample	23.13	23.13
Do.	do.	Seed bought in bulk	24.2	24.2
N. L. Willett Drug Co.	Augusta, Ga.	Mail sample	29	29
Do.	do.	Seed bought in bulk	28.6	28.6

In order that seedsmen, as well as farmers, may avoid the purchase of adulterated seeds, this Department will examine and report promptly as to the presence of adulterants in any samples of seed submitted for that purpose.

JAMES WILSON,
Secretary of Agriculture.

WASHINGTON, D. C., *February 7, 1906.*



5/21